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network interface in each computing/processing device receives computer readable program instructions from the network and forwards the computer readable program instructions for storage in a computer readable storage medium within the respective computing/processing device. 5

Computer readable program instructions for carrying out operations of the present invention may be assembler instructions, instruction-set-architecture (ISA) instructions, machine instructions, machine dependent instructions, microcode, firmware instructions, state-setting data, or 10 either source code or object code written in any combination of one or more programming languages, including an object oriented programming language such as Java, Smalltalk, C++ or the like, and conventional procedural programming languages, such as the "C" programming language or similar 15 programming languages. The computer readable program instructions may execute entirely on the user's computer, partly on the user's computer, as a stand-alone software package, partly on the user's computer and partly on a remote computer or entirely on the remote computer or 20 server. In the latter scenario, the remote computer may be connected to the user's computer through any type of network, including a local area network (LAN) or a wide area network (WAN), or the connection may be made to an external computer (for example, through the Internet using 25 an Internet Service Provider). In some embodiments, electronic circuitry including, for example, programmable logic circuitry, field-programmable gate arrays (FPGA), or programmable logic arrays (PLA) may execute the computer readable program instructions by utilizing state information 30 of the computer readable program instructions to personalize the electronic circuitry, in order to perform aspects of the present invention.

Aspects of the present invention are described herein with reference to flowchart illustrations and/or block diagrams of 35 methods, apparatus (systems), and computer program products according to embodiments of the invention. It will be understood that each block of the flowchart illustrations and/or block diagrams, and combinations of blocks in the flowchart illustrations and/or block diagrams, can be implemented by computer readable program instructions.

These computer readable program instructions may be provided to a processor of a general purpose computer, special purpose computer, or other programmable data processing apparatus to produce a machine, such that the 45 instructions, which execute via the processor of the computer or other programmable data processing apparatus, create means for implementing the functions/acts specified in the flowchart and/or block diagram block or blocks. These computer readable program instructions may also be stored 50 in a computer readable storage medium that can direct a computer, a programmable data processing apparatus, and/ or other devices to function in a particular manner, such that the computer readable storage medium having instructions stored therein comprises an article of manufacture including 55 instructions which implement aspects of the function/act specified in the flowchart and/or block diagram block or blocks.

The computer readable program instructions may also be loaded onto a computer, other programmable data processing apparatus, or other device to cause a series of operational steps to be performed on the computer, other programmable apparatus or other device to produce a computer implemented process, such that the instructions which execute on the computer, other programmable apparatus, or other 65 device implement the functions/acts specified in the flow-chart and/or block diagram block or blocks.

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The flowchart and block diagrams in the Figures illustrate the architecture, functionality, and operation of possible implementations of systems, methods, and computer program products according to various embodiments of the present invention. In this regard, each block in the flowchart or block diagrams may represent a module, segment, or portion of instructions, which comprises one or more executable instructions for implementing the specified logical function(s). In some alternative implementations, the functions noted in the block may occur out of the order noted in the figures. For example, two blocks shown in succession may, in fact, be executed substantially concurrently, or the blocks may sometimes be executed in the reverse order, depending upon the functionality involved. It will also be noted that each block of the block diagrams and/or flowchart illustration, and combinations of blocks in the block diagrams and/or flowchart illustration, can be implemented by special purpose hardware-based systems that perform the specified functions or acts or carry out combinations of special purpose hardware and computer instructions.

The descriptions of the various embodiments of the present invention have been presented for purposes of illustration, but are not intended to be exhaustive or limited to the embodiments disclosed. Many modifications and variations will be apparent to those of ordinary skill in the art without departing from the scope and spirit of the described embodiments. The terminology used herein was chosen to best explain the principles of the embodiments, the practical application or technical improvement over technologies found in the marketplace, or to enable others of ordinary skill in the art to understand the embodiments disclosed herein.

What is claimed is:

- 1. A system comprising:
- a first aerial drone having a first transfer member and a first controller, the first transfer member having a first coupling device on one end, the first transfer member being configured to carry a payload, the first controller including a processor configured to change a first altitude and first orientation of the first aerial drone;
- a second aerial drone having a second transfer member and a second controller, the second transfer member having a second coupling device on one end, the second transfer member being configured to receive the payload, the second controller including a processor configured to change a second altitude and a second orientation of the second aerial drone; and
- wherein the first controller and the second controller cooperate to change at least one of the first altitude, the second altitude, the first orientation and the second orientation to operably engage the first coupling device to the second coupling device for transferring the payload from the first transfer member to the second transfer member while the first aerial drone and second drone are in-flight.
- 2. The system of claim 1 wherein the first transfer member is a first arm extending from the first aerial drone and the second transfer member is a second arm extending from the second aerial drone.
- 3. The system of claim 2 further comprising a first tether slidably coupled on a first end to the first arm and coupled on an opposing end to the payload, wherein the first end is configured to slide from the first arm to the second arm when the first arm is engaged with the second arm.
- **4**. The system of claim **3** wherein the first controller is configured to change the first orientation and the second controller is configured to change the second orientation to